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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

07/15/2010

HOFFMAN WARNICK LLC 75 STATE ST 14TH FLOOR ALBANY, NY 12207 EXAMINER

HAYLES, ASHFORD S

ART UNIT PAPER NUMBER

3687

DATE MAILED: 07/15/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711.271	09/07/2004	Janice D. Ebel	BUR920040129US1	5270	

TITLE OF INVENTION: TOTAL INVENTORY MANAGEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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									(Date)
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10/711,271	09/07/2004		Janice D. Ebel			BU	R920040129US1		5270
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HAYLES, A	SHFORD S	3687	705-028000						
☐ "Fee Address" ind:	nge of Correspondence	or agents OR, alter (2) the name of a seregistered attorney	s of up to 3 registered patent attorneys, alternatively, of a single firm (having as a member a orney or agent) and the names of up to patent attorneys or agents. If no name is						
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HOFFMAN WA	ARNICK LLC	HAYLES, ASHFORD S			
75 STATE ST			ART UNIT	PAPER NUMBER	
14TH FLOOR ALBANY, NY 12	2207		3687 DATE MAILED: 07/15/2010		

#### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 897 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 897 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
Notice of Allowability	10/711,271 Examiner	EBEL ET AL. Art Unit				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lammer	Artonic				
	ASHFORD HAYLES	3687				
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is safety.	n this application. If not included unication will be mailed in due cour	se. <b>THIS</b>			
1. $\boxtimes$ This communication is responsive to $4/15/2010$ .						
2. The allowed claim(s) is/are <u>1,3-8,11,12,14-16 and 18-20</u> .						
<ul> <li>3.</li></ul>	,	or (f).				
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Application	n No				
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receive	d in this national stage application t	rom the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the require	ments			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv</li> </ol>			CE OF			
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	v ( PTO-948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date						
<ul><li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li></ul>	's Amendment / Comment or	in the Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in			k) of			
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			the			
Attachment(s)	5 🗖 Notice of In	formal Potent Application				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		formal Patent Application ummary (PTO-413),				
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	Paper No.	Mail Date Amendment/Comment				
Paper No./Mail Date						
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>		<ul><li>8. ☑ Examiner's Statement of Reasons for Allowance</li><li>9. ☐ Other</li></ul>				
/A LI /		_·				
/A. H./ Examiner, Art Unit 3687	/F. Ryan Zeen Supervisory Pa	den tent Examiner, Art Unit 3627				

Art Unit: 3687

#### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

## Regarding Independent Claims 1, 12 and 16

Claims 1, 12, and 16 recites a method, system and computer program product configured to determining a policy inventory (P) using the at least one computer; determining a policy and trapped inventory (PT) based on a difference between the excess inventory with the manufacturing limitation and the policy inventory and the excess inventory without the manufacturing limitation using the at least one computer; determining an optimum inventory (O) for each analysis point based on the policy and trapped inventory (PT) and the trapped inventory (OT), for each analysis point using the at least one computer according to the following algorithms AP-P = max (0, AP<sub>OT</sub> – AP<sub>PT</sub>) and: AP-O = AP<sub>OT</sub> - AP-P wherein AP<sub>OT</sub>, is the consumption calculated with the trapped only (OT) data; AP<sub>PT</sub>, is the consumption calculated with the policy and trapped (PT) data; AP-O are part of the AP<sub>OT</sub> that is not affected by the policy inventory; and determining an impact of the policy inventory on an inventory consumption using the at least one computer".

The most remarkable prior art on record is directed to Kurihara et al. (Patent Publication 2003/0171963). Kurihara et al. is directed to a production planning method and system for production planning. In particular, a production planning method for the production of two or more products within the same period, demand fluctuations

can be accommodated smoothly, without large modifications of the production plan, and without maintaining excessive inventory *Kuirhara et al. (Abstract)*.

Kurihara et al. does not teach the limitation of the claimed invention, where determining a policy and trapped inventory based on a difference between the excess inventory with the manufacturing limitation and the policy inventory and the excess inventory without the manufacturing limitation, determining an optimum inventory for each analysis point based on the policy and trapped inventory and the trapped inventory, for each analysis point using the at least one computer according to the following algorithms AP-P =  $\max$  (0, AP<sub>OT</sub> – AP<sub>PT</sub>) and: AP-O = AP<sub>OT</sub> - AP-P wherein AP<sub>OT</sub>, is the consumption calculated with the trapped only (OT) data. Moreover, none of the prior art of record remedies the deficiencies found in Kurihara et al.

Furthermore, neither the prior art, the nature of the problem, nor knowledge of a person having ordinary skill in the art, provide any reasonable rationale to combine prior art teachings.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# **Drawings**

The drawings were received on September 7, 2004. These drawings are sufficient.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cargille et al. Patent Publication 2003/0050817 discloses a capacity driven production planning.

Kakourous et al. United States Patent # 7,249,068 discloses a spot market-based inventory planning.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ASHFORD HAYLES whose telephone number is (571)270-5106. The examiner can normally be reached on Monday - Friday 8:00 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Gart can be reached on 571-272-3955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3687

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. H./ Examiner, Art Unit 3687

/F. Ryan Zeender/

Supervisory Patent Examiner, Art Unit 3627